

CLAIMS

1. An evacuation apparatus comprising:
a first vacuum pump connected to a vacuum chamber; and
5 a second vacuum pump connected to said first vacuum pump;
wherein said first vacuum pump has a pair of multistage
pump rotors.

2. An evacuation apparatus according to claim 1, wherein
10 each of said multistage pump rotors has an inlet-side rotor
and an outlet-side rotor, and an axial width of said inlet-side
rotor is larger than an axial width of said outlet-side rotor.

3. An evacuation apparatus according to claim 1 or 2,
15 wherein said first vacuum pump is started after said second
vacuum pump is started.

4. An evacuation apparatus according to any one of claims
1 to 3, wherein a rotational speed of said multistage pump
20 rotors is controlled based on a temperature of a gas delivered
by said evacuation apparatus, a pressure of the gas, a
temperature of a rotor casing for housing said multistage
pump rotors, or electric current flowing into a motor for
rotating said multistage pump rotors.

25 5. An evacuating apparatus according to any one of claims
1 to 4, wherein said first vacuum pump and said second vacuum
pump are accommodated in a single enclosure.